NATA LIGHTING CO.,LTD
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

LumCAT: CT01D04508CH(61.0081.000)
Luminaire: 92.70.183.00

Report No:	Voltage(V): 34.8800
Test No: GC2019042206	Current(A): 0.1070
LampCAT: CITIZEN CLU7A2	Power (W): 3.7320
Lamp flux(lm): 398.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 45	Width(mm): 45
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 343.25
Efficiency(%): 86.24%
Lumens(lm)/Power(W): 91.98
Central intensity(cd): 7475.696
Maximum intensity(cd): 7475.696
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=8.5
[C90/270]Total=8.5
Field angle(10%Imax): [C0/180]Total=16.1
[C90/270]Total=16.1
Maximum s/h(1/2): C0_180=0.15 C90_270=0.15
Maximum s/h(1/4): C0_180=0.15 C90_270=0.15
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.24%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 93.735%

Equipment: GMS1980	Date: 2019/4/22	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7475.695	0.000	0	.000%	.000%
1.0	7228.406	7.036	7.036	1.768%	2.050%
2.0	6518.813	19.731	26.767	4.958%	7.798%
3.0	5348.461	28.383	55.15	7.131%	16.067%
4.0	4046.977	31.450	86.599	7.902%	25.229%
5.0	2784.621	29.389	115.988	7.384%	33.791%
6.0	1776.832	23.972	139.96	6.023%	40.774%
7.0	1113.054	17.937	157.897	4.507%	46.000%
8.0	759.649	13.403	171.3	3.367%	49.905%
9.0	555.342	10.657	181.957	2.678%	53.009%
10.0	433.238	8.946	190.904	2.248%	55.616%
11.0	358.805	7.914	198.818	1.988%	57.921%
12.0	312.708	7.341	206.158	1.844%	60.060%
13.0	258.244	6.776	212.934	1.702%	62.034%
14.0	221.365	6.139	219.073	1.542%	63.822%
15.0	194.618	5.711	224.784	1.435%	65.486%
16.0	166.802	5.296	230.08	1.331%	67.029%
17.0	145.905	4.870	234.949	1.224%	68.448%
18.0	128.370	4.522	239.472	1.136%	69.765%
19.0	113.688	4.211	243.683	1.058%	70.992%
20.0	100.659	3.923	247.606	.986%	72.135%
21.0	89.044	3.643	251.249	.915%	73.196%
22.0	79.123	3.379	254.628	.849%	74.181%
23.0	70.734	3.144	257.772	.790%	75.097%
24.0	63.661	2.938	260.711	.738%	75.953%
25.0	57.361	2.752	263.463	.691%	76.754%
26.0	52.418	2.591	266.054	.651%	77.509%
27.0	48.185	2.461	268.515	.618%	78.226%
28.0	44.395	2.344	270.859	.589%	78.909%
29.0	41.386	2.244	273.103	.564%	79.563%
30.0	39.136	2.174	275.277	.546%	80.196%
31.0	36.956	2.118	277.395	.532%	80.813%
32.0	35.248	2.069	279.464	.520%	81.416%
33.0	33.820	2.035	281.498	.511%	82.009%
34.0	32.288	2.001	283.499	.503%	82.592%
35.0	31.444	1.979	285.478	.497%	83.168%
36.0	30.445	1.971	287.449	.495%	83.742%
37.0	28.688	1.929	289.377	.485%	84.304%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	27.577	1.878	291.255	.472%	84.851%
39.0	26.452	1.844	293.1	.463%	85.388%
40.0	25.390	1.808	294.908	.454%	85.915%
41.0	24.413	1.773	296.681	.446%	86.432%
42.0	23.323	1.734	298.415	.436%	86.937%
43.0	22.261	1.689	300.104	.424%	87.429%
44.0	21.340	1.646	301.749	.413%	87.908%
45.0	20.447	1.606	303.355	.403%	88.376%
46.0	19.470	1.561	304.916	.392%	88.831%
47.0	18.548	1.512	306.428	.380%	89.272%
48.0	17.655	1.464	307.892	.368%	89.698%
49.0	16.727	1.412	309.304	.355%	90.109%
50.0	15.806	1.356	310.66	.341%	90.505%
51.0	14.955	1.301	311.962	.327%	90.884%
52.0	14.161	1.249	313.211	.314%	91.248%
53.0	13.430	1.200	314.412	.302%	91.597%
54.0	12.713	1.152	315.564	.290%	91.933%
55.0	12.143	1.110	316.673	.279%	92.256%
56.0	11.616	1.074	317.747	.270%	92.569%
57.0	11.145	1.041	318.787	.261%	92.872%
58.0	10.716	1.011	319.798	.254%	93.167%
59.0	10.357	0.985	320.784	.248%	93.454%
60.0	10.090	0.966	321.75	.243%	93.735%
61.0	9.823	0.950	322.7	.239%	94.012%
62.0	9.640	0.938	323.638	.236%	94.285%
63.0	9.534	0.933	324.57	.234%	94.557%
64.0	9.380	0.928	325.498	.233%	94.827%
65.0	9.211	0.920	326.418	.231%	95.095%
66.0	9.056	0.911	327.33	.229%	95.361%
67.0	8.754	0.896	328.225	.225%	95.622%
68.0	8.395	0.869	329.094	.218%	95.875%
69.0	7.938	0.833	329.927	.209%	96.117%
70.0	7.587	0.797	330.725	.200%	96.350%
71.0	7.214	0.765	331.49	.192%	96.573%
72.0	6.827	0.730	332.22	.183%	96.785%
73.0	6.518	0.698	332.918	.175%	96.989%
74.0	6.349	0.676	333.594	.170%	97.186%
75.0	6.328	0.670	334.264	.168%	97.381%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.216	0.666	334.93	.167%	97.575%
77.0	6.180	0.661	335.591	.166%	97.767%
78.0	6.124	0.659	336.249	.165%	97.959%
79.0	5.843	0.643	336.892	.162%	98.147%
80.0	5.667	0.621	337.513	.156%	98.327%
81.0	5.498	0.604	338.117	.152%	98.503%
82.0	5.442	0.593	338.71	.149%	98.676%
83.0	5.449	0.592	339.302	.149%	98.849%
84.0	5.470	0.595	339.897	.149%	99.022%
85.0	5.435	0.595	340.492	.150%	99.195%
86.0	5.477	0.596	341.089	.150%	99.369%
87.0	5.351	0.593	341.681	.149%	99.542%
88.0	4.985	0.566	342.247	.142%	99.707%
89.0	4.577	0.524	342.771	.132%	99.859%
90.0	4.226	0.483	343.254	.121%	100.000%

Zonal flux distribution table

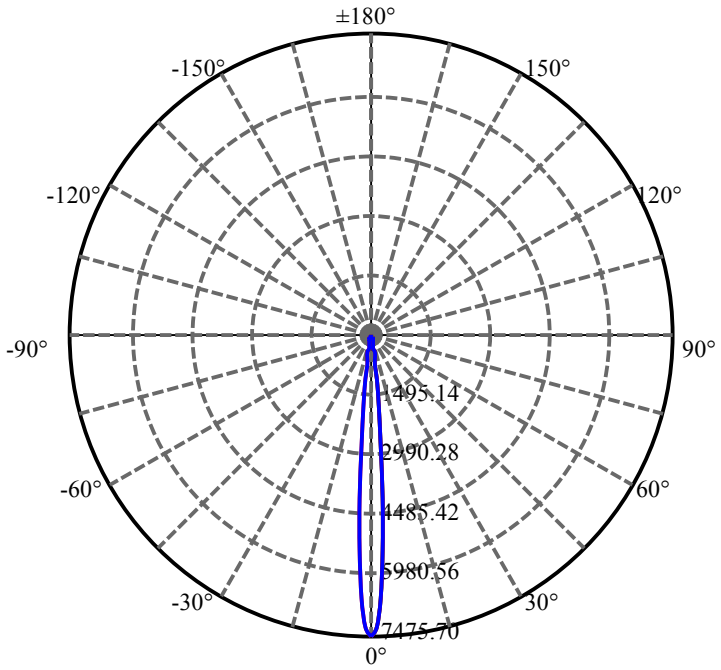
ZONAL LUMEN SUMMARY

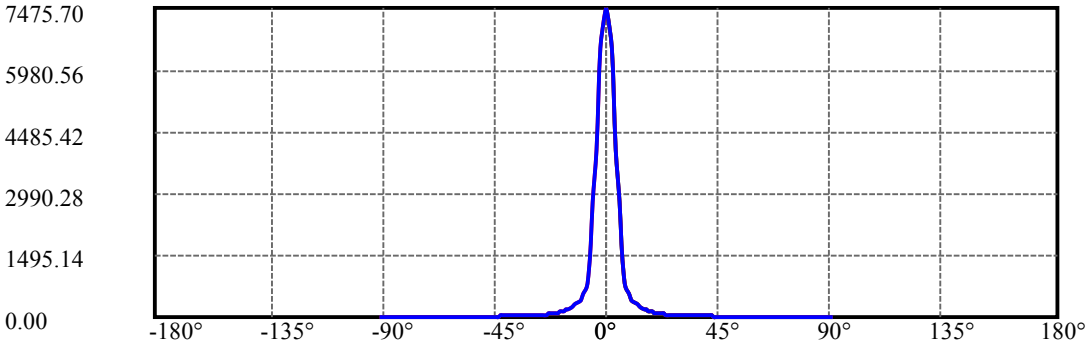
Zone	Lumens	%Lamp	%Fixt
0-30	275.28	69.17%	80.20%
0-40	294.91	74.10%	85.92%
0-60	321.75	80.84%	93.74%
0-90	342.77	86.12%	99.86%
0-120	342.77	86.12%	99.86%
0-180	343.25	86.24%	100.00%
60-90	21.99	5.52%	6.41%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.69	274.60	69.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	190.90
10-20	56.70
20-30	27.67
30-40	19.63
40-50	15.75
50-60	11.09
60-70	8.98
70-80	6.79
80-90	5.26
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Light Distribution Curve [Unit:cd]





C0(Max):

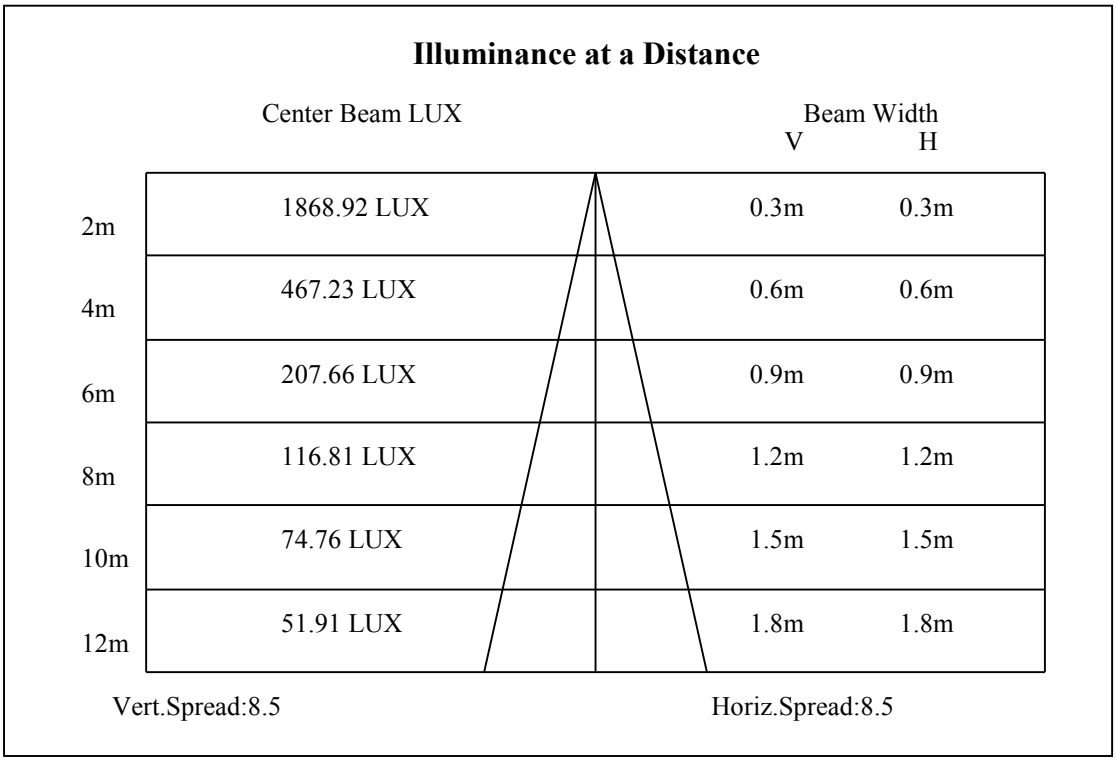
C0/C180:

C90/C270:

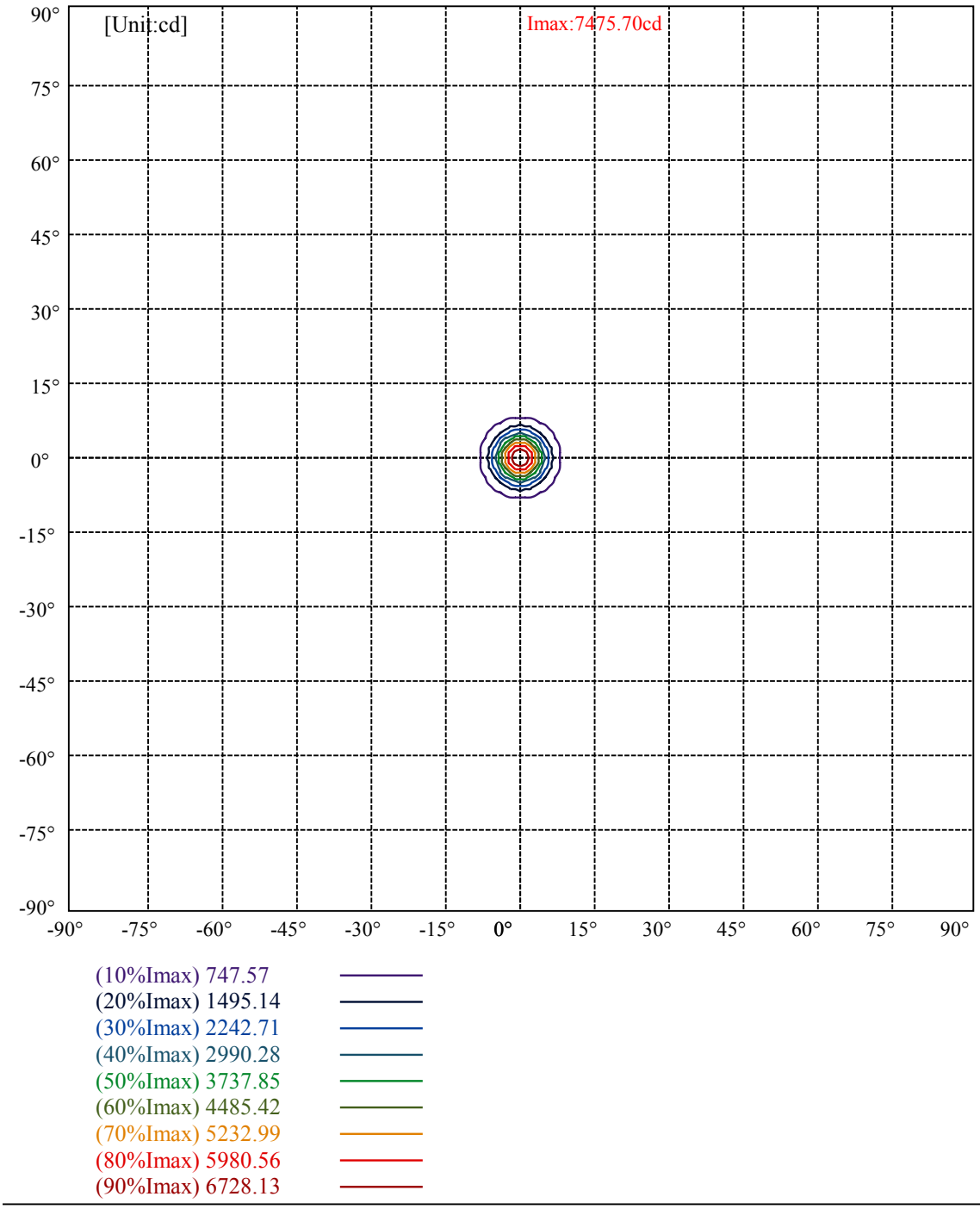
Field angle(10%Imax):C0/180Left:8.1 Right:8.1
:C90/270Left:8.1 Right:8.1

Beam Angle(50%Imax):C0/180Left:4.2 Right:4.2
:C90/270Left:4.2 Right:4.2

Lux distance Curve



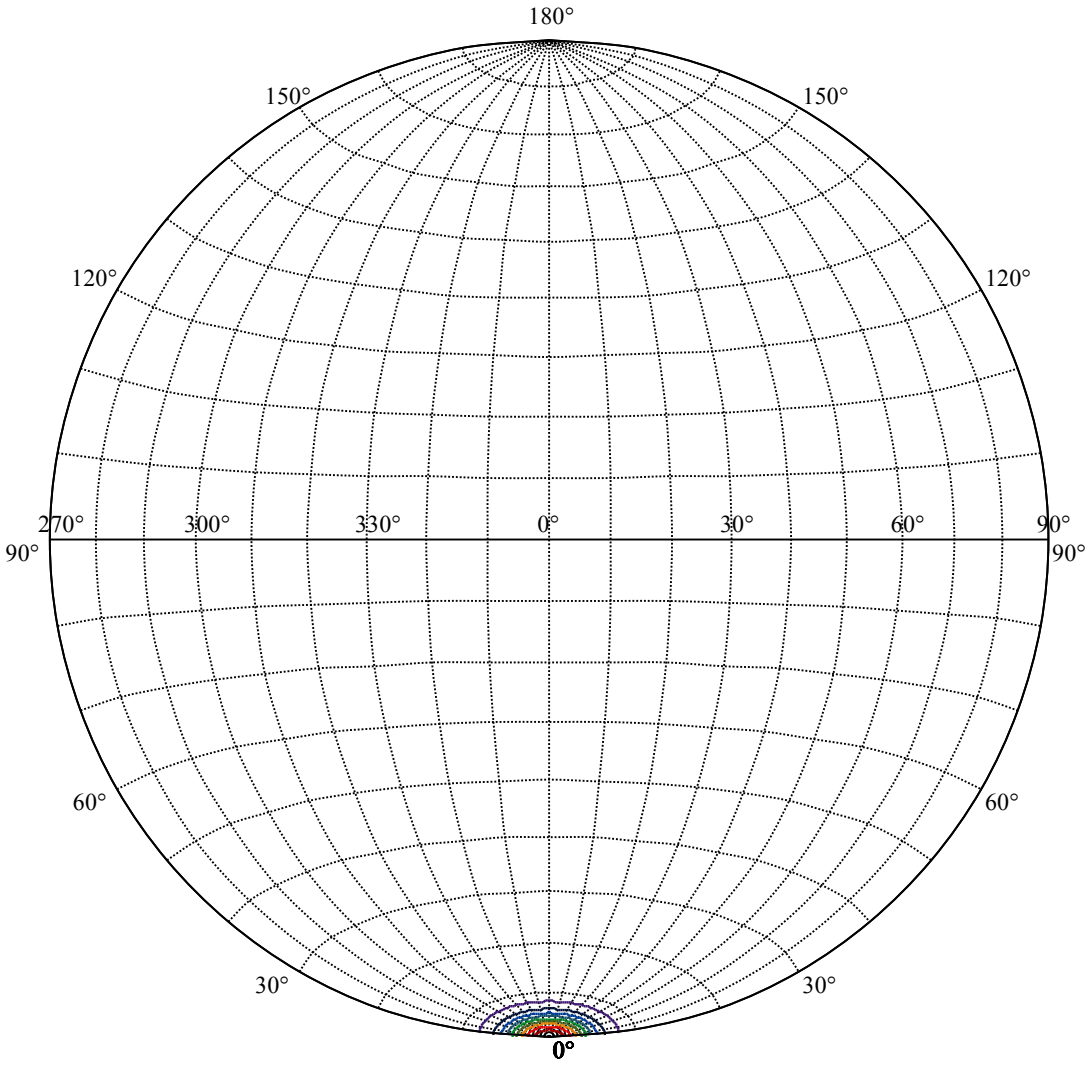
ISO-Intensity(V-H)



Equipment: GMS1980 Date: 2019/4/22 Operator: NT07

Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO candela diagram on circular web



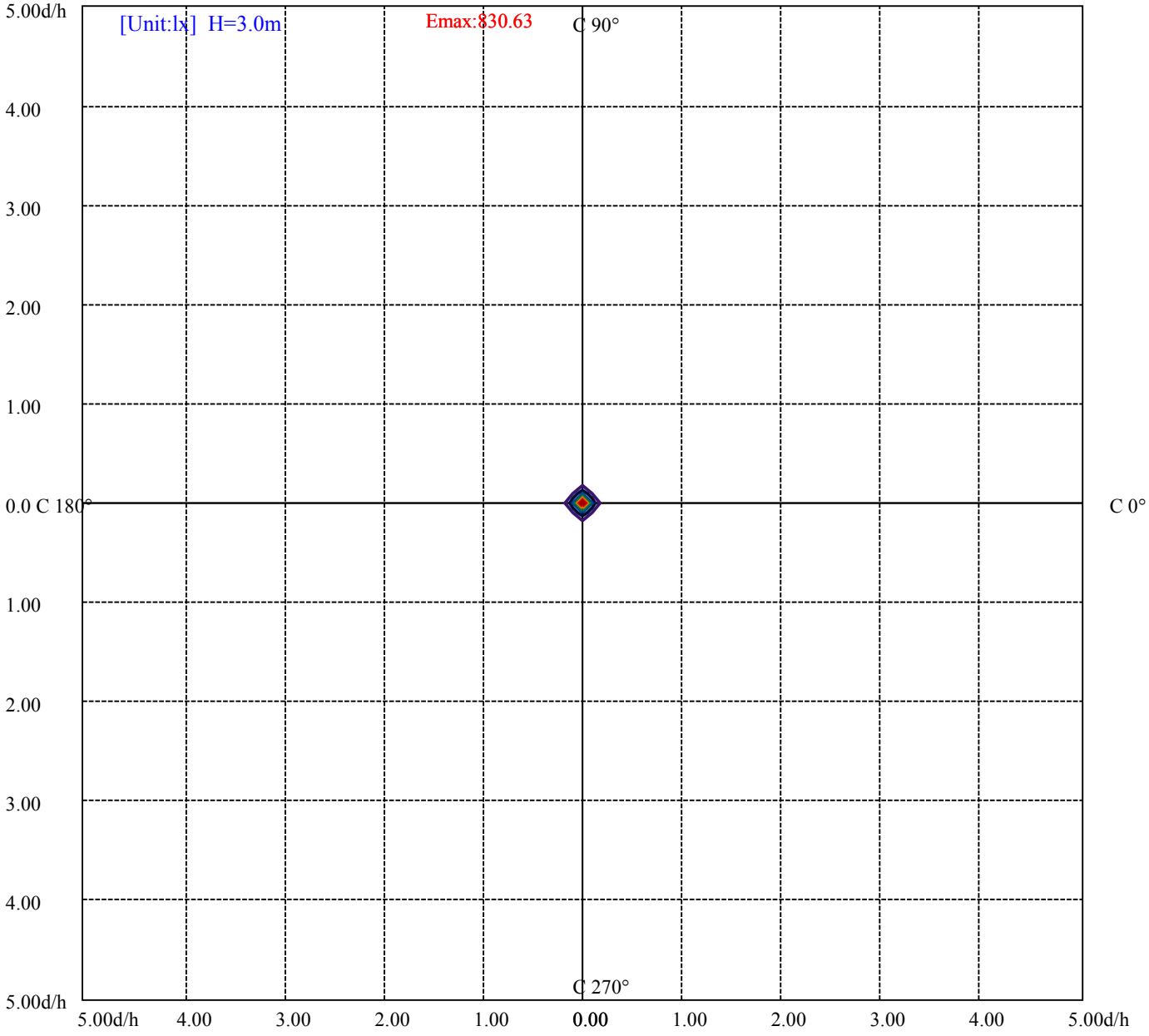
House [Unit:cd] Road

Imax:7475.70

(10%Imax) 747.57
(20%Imax) 1495.14
(30%Imax) 2242.71
(40%Imax) 2990.28
(50%Imax) 3737.85
(60%Imax) 4485.42
(70%Imax) 5232.99
(80%Imax) 5980.56
(90%Imax) 6728.13

Equipment: GMS1980 Date: 2019/4/22 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

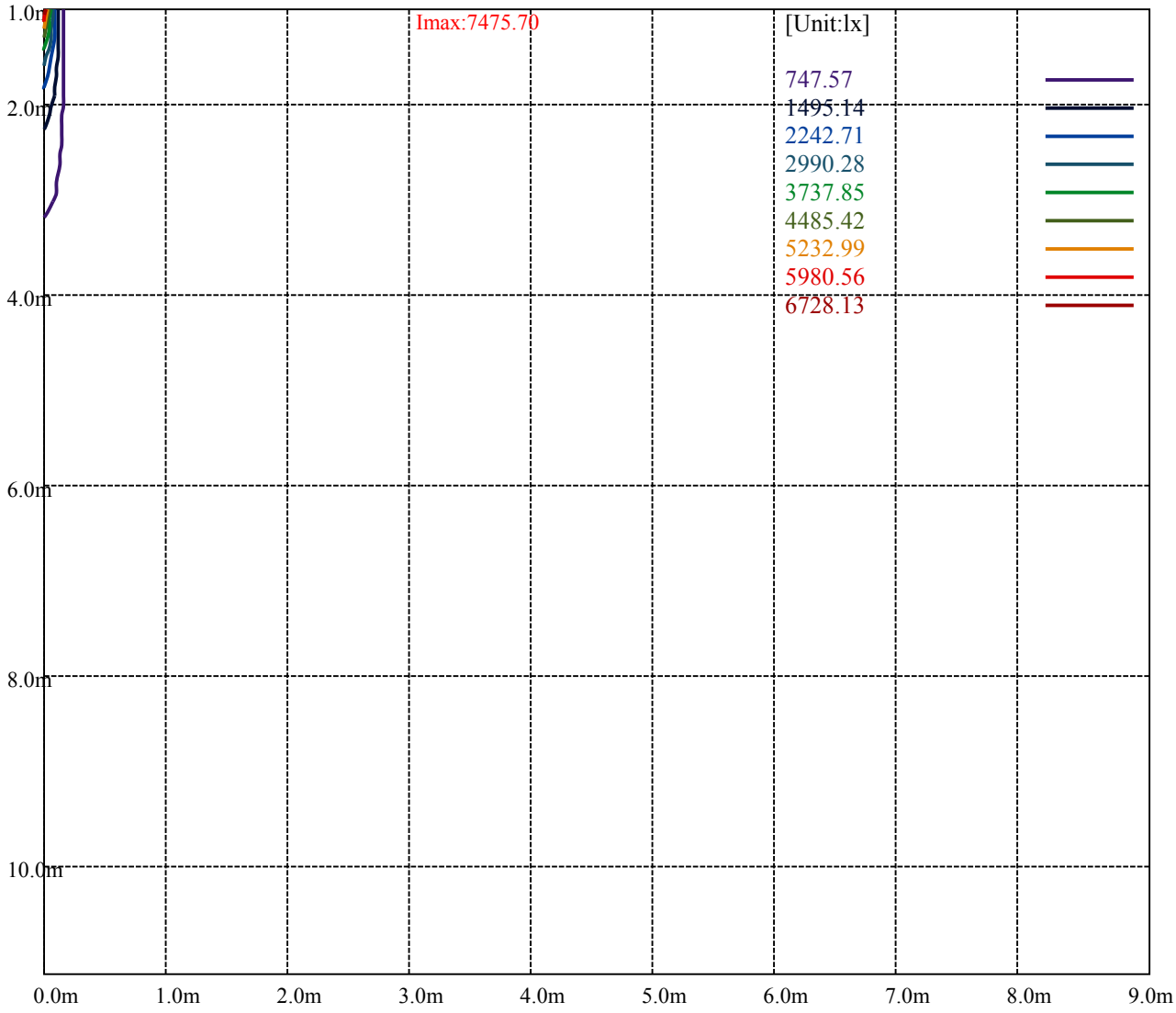
ISO illuminance diagram



(10%Emax) 83.06289
(20%Emax) 166.1255
(30%Emax) 249.1889
(40%Emax) 332.2511
(50%Emax) 415.3145
(60%Emax) 498.3778
(70%Emax) 581.44
(80%Emax) 664.5033
(90%Emax) 747.5656

Equipment: GMS1980
Temperature(°C): 10.0
Date: 2019/4/22
Humidity(%): 65.0%
Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/4/22
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

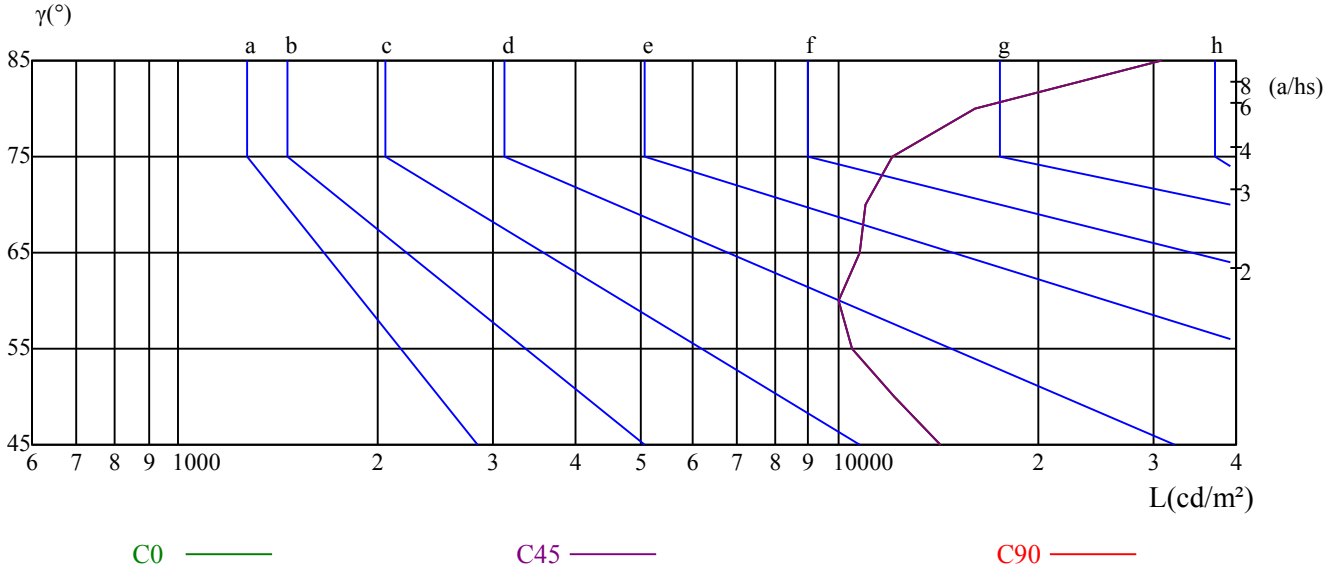
γ	45	50	55	60	65	70	75	80	85
C0	14280	12143	10455	9965	10763	10954	12074	16117	30796
C45	14280	12143	10455	9965	10763	10954	12074	16117	30796
C90	14280	12143	10455	9965	10763	10954	12074	16117	30796

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10763	10763	10763	12074	12074	12074	30796	30796	30796

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limitting Curve

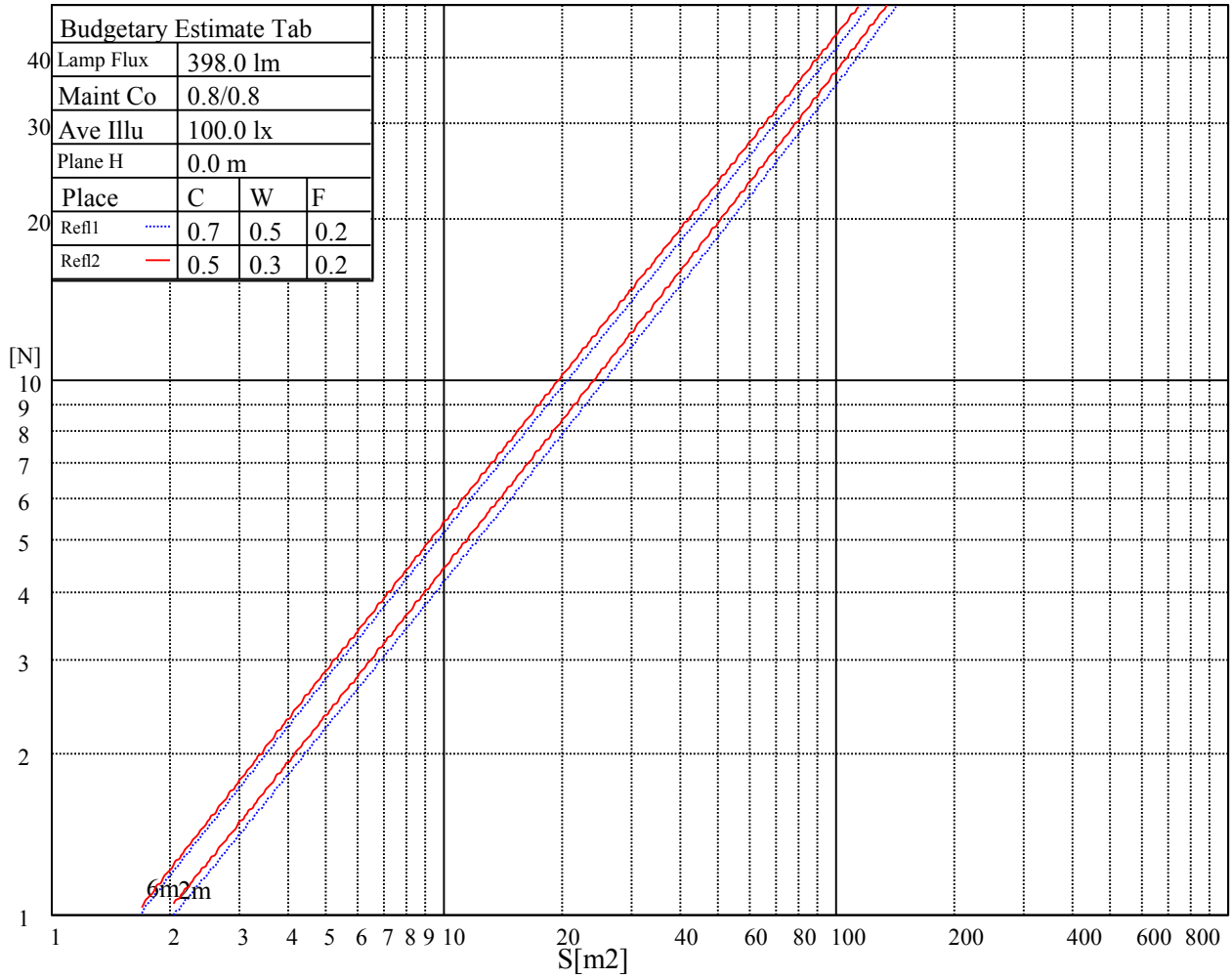


UGR Glare

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	18.90	19.96	19.26	20.28	20.59	19.20	20.26	19.56	20.57	20.89
	3H	20.76	21.71	21.14	22.04	22.41	22.16	23.10	22.54	23.44	23.80
	4H	21.82	22.70	22.23	23.05	23.44	23.18	24.06	23.58	24.41	24.80
	6H	23.08	23.89	23.50	24.27	24.66	24.29	25.10	24.71	25.47	25.87
	8H	23.89	24.65	24.32	25.05	25.45	24.92	25.69	25.36	26.08	26.49
	12H	25.39	26.12	25.83	26.51	26.94	26.02	26.75	26.45	27.13	27.57
4H	2H	19.41	20.29	19.82	20.64	21.03	19.65	20.53	20.05	20.88	21.27
	3H	21.59	22.32	22.00	22.72	23.13	22.78	23.51	23.19	23.91	24.32
	4H	22.86	23.51	23.29	23.93	24.38	23.98	24.64	24.42	25.06	25.51
	6H	24.23	24.80	24.70	25.25	25.72	25.23	25.79	25.70	26.24	26.72
	8H	25.20	25.73	25.68	26.18	26.66	26.03	26.56	26.50	27.01	27.48
	12H	26.72	27.18	27.21	27.67	28.14	27.19	27.65	27.68	28.14	28.61
8H	4H	23.40	23.92	23.87	24.37	24.85	24.33	24.86	24.81	25.31	25.78
	6H	25.08	25.51	25.59	26.01	26.50	25.88	26.30	26.38	26.80	27.29
	8H	26.26	26.64	26.79	27.16	27.65	26.88	27.26	27.41	27.78	28.28
	12H	28.00	28.34	28.52	28.83	29.41	28.38	28.72	28.90	29.21	29.79
12H	4H	23.54	24.00	24.03	24.49	24.96	24.42	24.88	24.90	25.36	25.84
	6H	25.73	25.73	25.88	26.20	26.75	26.45	26.45	26.60	26.92	27.47
	8H	26.65	26.98	27.17	27.48	28.06	27.20	27.53	27.72	28.03	28.61

Variation with the observer position at spacings:		
S = 1.0H	0.2/-0.7	0.2/-0.7
S = 1.5H	0.6/-0.8	0.6/-0.8
S = 2.0H	0.2/-0.9	0.2/-0.9
Standard tables:	BKBF	BKBF
Uncorrected UGR	6.3	6.3

Budgetary Estimate Table

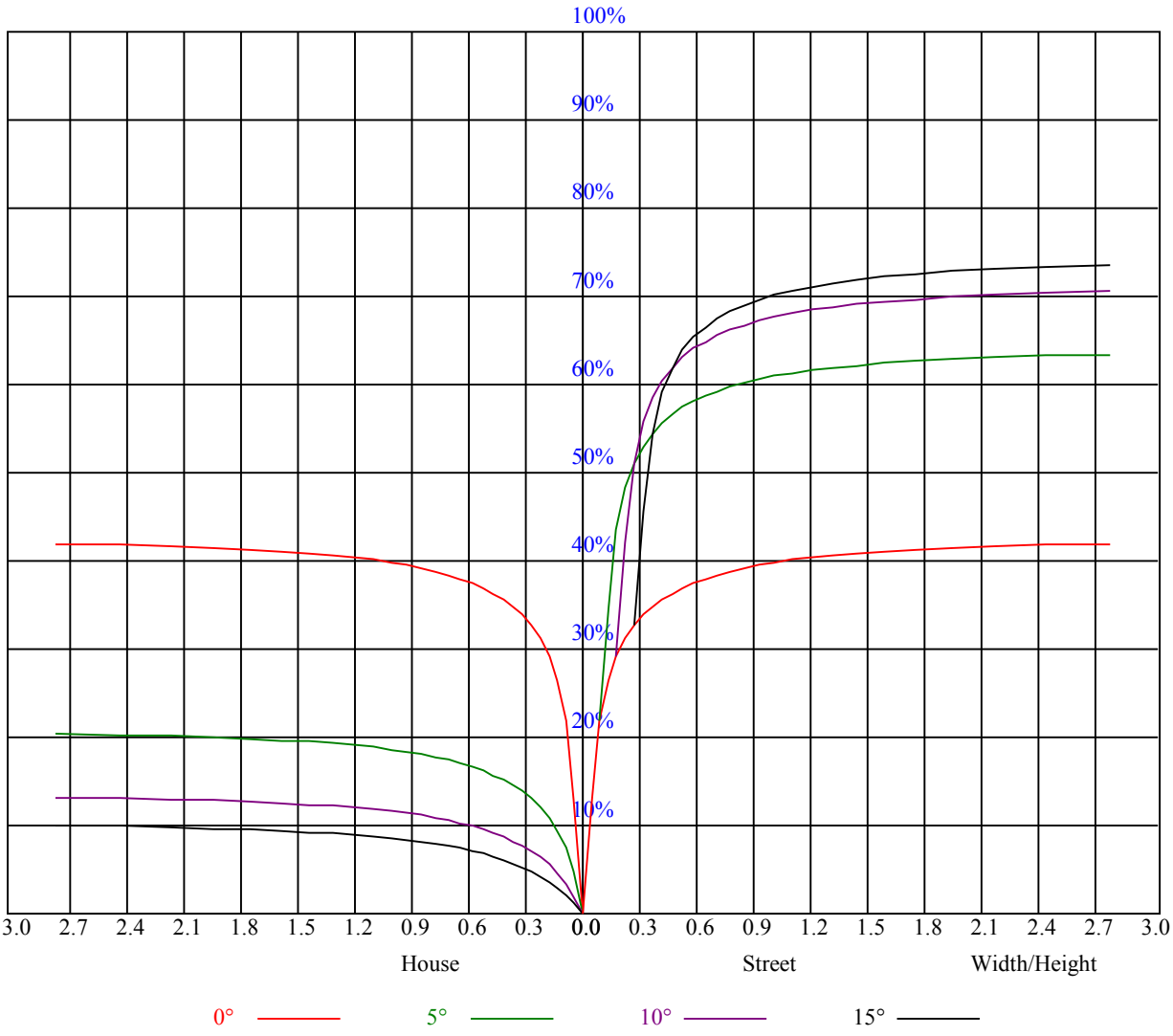


Equipment: GMS1980 Date: 2019/4/22 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

Utilization factor table for indoor luminaire

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.79	0.77
3	0.86	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.79	0.77	0.75	0.74
4	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.78	0.76	0.74	0.77	0.75	0.73	0.72
5	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.75	0.73	0.71	0.70
6	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.71	0.69	0.68
7	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
8	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65
9	0.71	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.69	0.66	0.65	0.64
10	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.68	0.65	0.64	0.63

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/4/22	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	7560.00	7655.63	7214.63	6280.31	4957.31	3315.94	1962.00	1197.56	770.06
45.0	7487.44	6787.69	5450.06	4042.13	2581.88	1521.00	950.63	634.50	493.88
90.0	7254.56	6232.50	4934.25	3368.81	2077.88	1092.66	846.06	567.96	451.24
135.0	7574.06	7110.00	6156.56	4523.06	3195.56	2129.63	1226.25	840.38	620.44
180.0	7560.00	7062.19	5986.13	4491.56	3158.44	1964.81	1068.98	808.14	575.83
225.0	7540.88	7729.88	7539.75	6746.06	5657.63	4261.50	2935.69	1715.63	1074.43
270.0	7254.56	7659.00	7651.69	7148.81	6215.63	4720.50	3149.44	2040.19	1294.88
315.0	7574.06	7590.38	7217.44	6186.94	4531.50	3270.94	2075.63	1100.08	796.44
360.0	7560.00	7655.63	7214.63	6280.31	4957.31	3315.94	1962.00	1197.56	770.06

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	566.44	462.38	386.44	334.69	284.06	239.57	208.24	181.91	154.35
45.0	400.50	336.38	290.25	285.19	208.86	183.09	161.33	139.50	124.31
90.0	379.80	314.27	270.62	233.61	196.37	172.24	151.82	130.44	117.56
135.0	457.88	372.94	311.06	286.31	219.66	192.66	167.06	146.76	131.01
180.0	456.86	368.61	306.51	263.48	224.61	193.28	170.38	151.20	130.56
225.0	784.63	546.13	438.47	365.79	307.07	260.27	225.79	193.61	169.71
270.0	793.69	586.69	468.56	389.25	330.19	285.75	260.89	206.89	181.07
315.0	602.94	478.52	398.53	343.35	295.14	244.07	211.44	184.11	158.68
360.0	566.44	462.38	386.44	334.69	284.06	239.57	208.24	181.91	154.35

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	136.35	121.44	105.86	95.68	85.61	75.83	67.39	60.98	55.07
45.0	111.94	98.89	87.02	77.85	68.51	61.71	56.08	51.19	47.14
90.0	103.78	90.23	81.79	72.56	63.96	58.84	53.78	47.87	44.61
135.0	115.54	103.39	92.03	80.55	71.44	63.79	57.04	52.37	48.21
180.0	116.49	103.89	92.48	80.33	72.79	64.80	58.33	53.55	48.77
225.0	147.88	130.05	116.33	102.54	90.39	81.45	73.29	64.80	59.23
270.0	156.71	138.26	121.11	107.83	95.06	83.93	75.21	66.88	60.47
315.0	138.26	123.36	108.68	95.01	85.22	75.54	68.18	61.26	55.86
360.0	136.35	121.44	105.86	95.68	85.61	75.83	67.39	60.98	55.07

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	50.63	46.41	42.92	40.33	37.91	35.89	34.26	32.74	31.11
45.0	43.59	40.50	38.08	36.23	34.09	32.63	31.22	29.93	28.80
90.0	41.46	38.70	36.96	36.23	34.26	33.13	31.56	30.88	31.05
135.0	43.76	40.73	38.08	35.66	33.98	32.74	31.33	30.38	30.88
180.0	45.11	41.63	38.98	36.51	34.71	33.36	32.06	31.16	30.88
225.0	54.56	49.50	46.07	43.26	40.56	38.25	36.68	35.04	33.75
270.0	54.62	49.67	46.07	43.54	41.01	39.54	38.93	35.44	34.26
315.0	51.75	48.04	43.93	41.34	39.15	36.45	34.54	32.74	30.83
360.0	50.63	46.41	42.92	40.33	37.91	35.89	34.26	32.74	31.11

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	29.98	28.91	28.01	26.94	25.88	24.92	23.85	23.12	22.33
45.0	27.84	26.66	25.43	24.36	23.23	22.22	21.21	20.19	19.18
90.0	28.18	26.89	26.04	24.75	23.74	22.89	21.77	20.59	19.63
135.0	31.33	27.96	26.44	25.37	24.53	23.68	22.67	21.54	20.64
180.0	31.73	28.80	27.23	26.04	25.09	24.30	23.29	22.22	21.26
225.0	32.57	31.50	30.66	29.53	28.41	27.34	26.33	25.03	23.96
270.0	32.74	30.77	29.81	28.58	27.34	26.44	24.98	23.85	23.06
315.0	29.19	28.01	27.00	26.04	24.92	23.51	22.50	21.54	20.64
360.0	29.98	28.91	28.01	26.94	25.88	24.92	23.85	23.12	22.33

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	21.71	20.70	19.86	18.96	18.00	16.99	15.98	15.13	14.29
45.0	18.17	17.10	16.31	15.47	14.46	13.73	12.99	12.21	11.70
90.0	18.84	17.89	16.76	15.86	15.02	14.01	13.33	12.66	12.04
135.0	19.63	18.79	17.94	17.10	16.14	15.36	14.46	13.78	13.11
180.0	20.14	19.13	18.23	17.21	16.37	15.47	14.63	13.95	13.33
225.0	22.95	21.83	20.53	19.46	18.28	17.16	16.14	15.19	14.40
270.0	22.11	21.04	20.19	19.24	18.23	17.38	16.59	15.69	14.79
315.0	20.03	19.29	18.56	17.94	17.33	16.37	15.53	14.68	13.78
360.0	21.71	20.70	19.86	18.96	18.00	16.99	15.98	15.13	14.29

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	13.50	12.94	12.49	11.93	11.59	11.36	11.36	11.36	11.53
45.0	11.14	10.69	10.24	9.84	9.51	9.23	8.94	8.55	8.27
90.0	11.48	11.03	10.58	10.18	9.79	9.45	9.11	8.72	8.33
135.0	12.43	11.87	11.31	10.91	10.46	10.01	9.62	9.28	8.89
180.0	12.60	12.09	11.70	11.25	10.91	10.63	10.63	10.97	11.53
225.0	13.56	12.88	12.32	11.81	11.25	10.86	10.46	10.01	9.68
270.0	14.01	13.22	12.54	11.98	11.42	10.97	10.58	10.07	9.68
315.0	12.99	12.43	11.76	11.25	10.80	10.35	10.01	9.62	9.23
360.0	13.50	12.94	12.49	11.93	11.59	11.36	11.36	11.36	11.53

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.93	12.21	12.38	12.54	12.38	11.98	11.14	10.35	9.51
45.0	7.93	7.54	7.26	7.03	6.81	6.58	6.41	6.30	6.13
90.0	7.99	7.71	7.37	7.14	6.92	6.64	6.36	6.24	6.02
135.0	8.55	8.16	7.82	7.54	7.31	7.09	6.86	6.64	6.41
180.0	12.26	12.88	13.33	13.50	12.99	11.98	10.80	9.84	9.06
225.0	9.28	8.94	8.61	8.33	7.93	7.76	7.43	7.20	7.03
270.0	9.34	8.89	8.55	8.21	7.88	7.59	7.31	7.03	6.75
315.0	9.00	8.72	8.38	8.16	7.82	7.54	7.20	7.09	6.81
360.0	11.93	12.21	12.38	12.54	12.38	11.98	11.14	10.35	9.51

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.49	7.76	7.26	7.03	6.98	6.98	6.92	6.69	6.30
45.0	6.08	5.91	5.79	5.74	5.68	5.51	5.34	5.01	4.95
90.0	5.85	5.74	5.68	6.02	5.63	5.51	5.29	5.23	5.34
135.0	6.24	6.08	6.02	6.08	6.08	6.02	5.91	5.68	5.57
180.0	8.04	7.43	7.20	7.20	7.14	7.03	6.75	6.41	6.13
225.0	6.81	6.58	6.41	6.36	6.19	6.19	6.08	5.85	5.68
270.0	6.53	6.30	6.13	5.96	5.79	5.85	6.36	5.68	5.57
315.0	6.58	6.36	6.30	6.24	6.24	6.36	6.36	6.19	5.79
360.0	8.49	7.76	7.26	7.03	6.98	6.98	6.92	6.69	6.30

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.85	5.68	5.57	5.46	5.34	5.23	5.29	5.06	4.78
45.0	4.89	4.84	4.89	4.89	4.89	4.95	4.61	4.33	3.99
90.0	5.57	5.79	5.91	5.85	5.74	5.74	5.29	4.89	4.44
135.0	5.51	5.46	5.57	5.74	5.68	5.85	5.85	5.40	4.95
180.0	5.79	5.68	5.51	5.40	5.23	5.34	5.12	4.95	4.44
225.0	5.46	5.34	5.29	5.29	5.29	5.23	5.29	5.06	4.73
270.0	5.40	5.29	5.34	5.57	5.79	5.91	5.85	5.06	4.50
315.0	5.51	5.46	5.51	5.57	5.51	5.57	5.51	5.12	4.78
360.0	5.85	5.68	5.57	5.46	5.34	5.23	5.29	5.06	4.78

Intensity data(cd)

C/γ(°)	90.0
0.0	4.39
45.0	3.77
90.0	4.16
135.0	4.39
180.0	4.16
225.0	4.50
270.0	4.05
315.0	4.39
360.0	4.39